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PE		Application Number		10/014,896		
TRANSMITT	AL	Filing Date		Dec 11, 2001		
TRANSMITT		First Named Invento	or	Yu, Xuanchuan		
TRADEMINISTRATE TO A USE OF THE CORRESPONDENCE OF		Group Art Unit		1645		
(To be used for all correspondence aft	er initial filing)	Examiner Name		Not Yet Assigned MAR 1 2 2002 &		
Total Number of Pages in This Sul	omission 8	Attorney Docket Num	nber	LEX-0280-USA		
ENCLOSURES (check all that apply)						
Fee Transmittal Form	Assignment (for an Ap	•		After Allowance Communication to Group		
Fee Attached	Drawing(s			Appeal Communication to Board of Appeals and Interferences		
Amendment / Reply	Licensing-	related Papers		Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)		
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Affidavits/declaration(s)	1	Convert to a all Application		Status Letter		
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Document(s)  Response to Missing Parts/	Remarks	References cited in (2) bin	ders			
Incomplete Application						
Response to Missing Parts under 37 CFR 1.52 or 1.53 <sup>3</sup>						
SIG	NATURE OF A	PPLICANT, ATTORNEY	, OR A	GENT		
Firm or Individual name Lance K. Ishimoto, Reg. No. 41,866 Lexicon Genetics Incorporated						
Signature Lance K. John	onwe by De			W. HBLER 24231 10. 41,071 PATENT TRADEMARK OFFICE		
Date March 5, 2002						
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Typed or printed name   Michelle Klein		<u></u>				
Signature \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(KOOIM)		Date	March 5, 2002		

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAR 1 2 2002

Applicant(s):

Yu et al.

Application No.:

10/014,896

Filed:

December 11, 200

Group Art Unit: 1645

Title:

Novel Human Proteases and

Polynucleotides Encoding the Same

Examiner: Not Yet Assigned

Attorney Docket No.: LEX-0280-USA

Assistant Commissioner for Patents

Washington, D.C. 20231

Box DD

## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

X under 37 CFR 1.97(b), or
 (Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

- under 37 CFR 1.97(c) together with either a:
  - \_\_\_ Certification under 37 CFR 1.97(e), or
  - \_\_ a \$240.00 fee under 37 CFR 1.17(p), or
  - (After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- \_\_\_ under 37 CFR 1.97(d) together with a:
  - \_\_\_ Certification under 37 CFR 1.97(e), and
  - a petition under 37 CFR 1.97(d)(2)(ii), and
  - \_\_ a \$130.00 petition fee set forth in 37 CFR 1.17(i)(1).
    - (Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

X Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.



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MAR 1 2 2002 Applicant submits that the above references taken alone or in combination neither anticipate nor report obvious the present invention. Consideration of the foregoing in relation to this tion is respectfully requested.

The Commissioner is hereby authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement to Lexicon Genetics Deposit Account No. 50-0892. A copy of this sheet is enclosed.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

March 5, 2002

Date

Jana K. Dlinnot by David W. Thol

Lance K. Ishimoto

Seg. No. 41 866

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LEXICON GENETICS INCORPORATED (281) 863-3333

24231

PATENT TRADEMARK OFFICE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

Complete if Known				
Application Number	10/014,896			
Filing Date	December 11, 2001			
First Named Inventor	Yu			
Group Art Unit	1645			
Examiner Name	Not Yet Assigned			

3 Sheet of 1

Attorney Docket Number | LEX-0280-USA

982	4		U.S. PATENT DOCUMEN	TS	
amined's	Cite No.1	U.S. Patent Document  Number Kind Code² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	4,215,051	Schroeder et al	07/29/80	
	AB	4,376,110	David et al	03/08/83	
	AC	4,594,595	Struckman	06/10/86	
	AD	4,631,211	Houghten	12/23/86	
	AE	4,689,405	Frank et al	08/25/87	
	AF	4,713,326	Dattagupta et al	12/15/87	
	AG	4,873,191	Wagner et al	10/10/89	
	AH	4,946,778	Ladner et al	08/07/90	
	Al	5,252,743	Barrett et al	10/12/93	
	AJ	5,272,057	Smulson et al	12/21/93	
	AK	5,424,186	Fodor et al	06/13/95	
	AL	5,445,934	Fodor et al	08/29/95	
	AM	5,459,127	Felgner et al	10/17/95	
	AN	5,556,752	Lockhart et al	09/17/96	
	AO	5,700,637	Southern	12/23/97	
	AP	5,744,305	Fodor et al	04/28/98	
	AQ	5,830,721	Stemmer et al	11/03/98	
	AR	5,837,458	Minshull et al	11/17/98	
	AS	5,869,336	Meyer et al.	02/09/99	
	AT	5,877,397	Lonberg et al	03/02/99	
	AU	5,948,767	Scheule et al.	09/07/99	
	AV	6,075,181	Kucherlapati et al	06/13/00	
	AW	6,110,490	Thierry	08/29/00	
	AX	6,150,584	Kucherlapati et al.	11/21/00	
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Examiner	Date	٦
Signature	Considered	╝

<sup>\*</sup>EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Sheet	3	of	3	Attorney Docket Number	LEX-0280-USA	

TA TO	DENA	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AY	Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.	
	ΑZ	Bitter et al, 1987, "Expression and Secretion Vectors for Yeast", Methods in Enzymology 153:516-544.	
	ВА	Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.	
	BB	Gautier et al, 1987, " $\alpha$ -DNA IV: $\alpha$ -anomeric and $\beta$ -anomeric tetrathymidylates covalently linked to intercalating oxazolopyridocarbazole. Synthesis, physiochemical properties and poly (rA) binding", Nucleic Acids Research 15(16):6625-6641.	
	ВС	Gordon, 1989, "Transgenic Animals", International Review of Cytology, 115:171-229.	
	BD	Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.	
	BE	Gu et al, 1994, "Deletion of a DNA Polymerase $\beta$ Gene Segment in T Cells Using Cell Type-Specific Gene Targeting", Science 265:103-106.	
	BF	Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.	
	BG	Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.	
	ВН	Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and R Nase H", FEBS Letters 215(2):327-330.	
	ВІ	Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.	
	BJ	Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.	
	вк	Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS 88:8972-8976.	
	BL	Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.	
	ВМ	Lakso et al, 1992, "Targeted oncogene activation by site-specific recombination in transgenic mice", Proc. Natl. Acad. Sci. USA 89:6232-6236.	
	BN	Lavitrano et al, 1989, "Sperm Cells as Vectors for Introducing Foreign DNA into Eggs: Genetic Transformation of Mice", Cell 57:717-723.	
	во	Lo, 1983, "Transformation by lontophoretic Microinjection of DNA: Multiple Integrations without Tandem Insertions", Mol. of Cell. Biology 3(10):1803-1814.	&
	BP	Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.	
	BQ	Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster aprt Gene", Cell 22:817-823.	
	BR	Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.	



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Subs	titute for form 1449B/PTO			Γ	(	Complete if Known
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Sheet	3	of			ttorney Docket Number	LEX-0280-USA

		THER PRIOR FT - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	BS	Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.	
	ВТ	Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.	
	BU	Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.	
	BV	O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.	
	BW	Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.	
	вх	Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.	
	BY	Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.	
	BZ	Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.	
	CA	Stein et al, 1988, "Physiochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.	
i	СВ	Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.	
	СС	Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314:452-454.	
	CD	Thompson et al, 1989, "Germ Line Transmission and Expression of a Corrected HPRT Gene Produced by Gene Targetin in Embryonic Stem Cells", Cell 56:313-321.	g !
	CE	Van Der Putten et al, 1985, "Efficient insertion of genes into the mouse germ line via retroviral vectors", Proc. Natl. Acad. Sci. USA 82:6148-6152.	
	CF	Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemistry 264(10):5503-5509.	
	CG	Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli", Nature 341:544-546.	
	СН	Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", Cell 11:223-232.	

Examiner	Date
Signature	Considered

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.